Bruhat Bangalore Mahanagara Palike
Dasarahalli Zone

Name of Work: Detailed Estimate for the Work of Drilling of Borewell, Providing Pumping Machinery and Pipe Line, for Supply of water to Medarahalli janatha colony in Ward No. 12 Shettyhalli Sub-Division, Dasarahalli Division.

Sl. No.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the Habitation either through the hand pump, MWS O PWSS by vertical electrical sounding by adopting veneer or Schlumbergers's method including reconnaissance survey of Geological formation, Geophysical investigation of existing ground water in the vicinity its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolicated formation including an extra depth of 1 0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc., (P 32 I 4)								
		No.	1				**1.00**	1600.00	**1600.00**
2	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over burdern upto 20 M. fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc , complete including yield testing at the final depth with a minimu working of compressor for one hour (excluding cost of casing pipes, collars, cap etc..) (P. No.36 I No. 9.1) PRED SR. 2010-11	Rmtr							
a	Upto 50.00m depth	Rmtr	1	50.00			**50.00**	265.00	**13250.00**
b	Above 50.00 to 100.00m depth	Rmtr	1	50.00			**50.00**	345.00	**17250.00**
c	Above 100.00 to 150.00m depth	Rmtr	1	50.00			**50.00**	380.00	**19000.00**
d	Above 150m to 200m depth	Rmtr	1	50.00			**50.00**	440.00	**22000.00**
e	Above 200m up to 250m depth	Rmtr	1	50.00			**50.00**	480.00	**24000.00**
f	Above 250m up to 300m depth	Rmtr	1	50.00			**50.00**	520.00	**26000.00**

3	Supplying of ISI Mark 175mm Nominal bore plain end steel casing pipe-grade of steel Fe 410, of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest emendments electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxyzen process in random length of 4 to 7 Mts. Both ends threaded confirming to IS 554/1985 one end fixed with a socket confirming to IS 4270:2001 and the other end with screwed pipes. all pipes shall be reasonably straight should be with ISI making, welding, weighing 25.10 kg/mtr (icnlusive of all taxes and duties) Prices include collar medium duty (P. No.II I. No.) PRED SR. 2010-11								
		Mtr	1	45.00			**45.00**	1325.00	**59625.00**
4	Providing 175mm dia MS cap	Nos	1				**1**	100.00	**100.00**
5	M.S Casing pipe collars 'C' Class	Nos	1x8				**8**	150.00	**1200.00**
6	Providing and fixing of 50 mm dia PVC Pipe and as specification and direction RDED SR of 2006-07 P. 4 I. 4.30	Mtr							
			1	6.00			**6.00**	850.00	**5100.00**
7	Supply and delivery at site brand new submersible PUMPSET suitable for borewell of 150mm dia and having declared duty conditions as detailed below and satisfying performance characteristic for pump and motor as declared by Bureau of Indian Standards. The pump should confirm to IS: 8034-1976 (with all its latest amendments) and should bear the ISI certification mark IS 8034-1976 The pumpset should consist of bronze impellers. discharge 7500 lph, Head: 102 88 mts, **15.00 HP 25 Stage**	Set							
	15.00 HP 30 Stage		1				1	52000.00	**52000.00**
8	Providing laying and jointing GI pipes conforming to I.S. specification of approved make with fittings such as collers Bends Elbows Tees Nipples Plugs with cuts thread using white lead and thread for joints wherever necessary as per directions including all leads and lift etc., complete A Grade (Excluding cost of fittings) 50mm dia GI pipe (Rate approved by RDED)								
	For motor	Rmtr	1	275.00			**275.00**	374.00	**102850.00**
9	Providing and fixing heavy duty collars	No	46				**46**	170.00	**7820.00**
10	Supplying and delivery of brand new FINOLEX make PVC insulated Xst copper condutor to latest Indian Standard specification (Rate approved by RDED:								
		Mtr	1	600.00			**600.00**	96.00	**57600.00**

11	Supplying and delivery at site brand new / Essen / Lotus sunsines / Adarsh / GK controls best indigenous make combine energy meter - cum - controlpanel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof The unit shall have two detachable doors suitable for operation on 3ph, 50Hz. 380/440 volts. AC supply with spring loaded latch locking with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided the combine energy meter cum - control panel board unit suitable for operation on 3ph, 50Hz. 380/440 AC supply shall be consisted etc,. complete T panel board shall be febricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 12.5 HP with Star Delta Starter								
		Nos	1				**1.00**	14800.00	**14800.00**
12	Fabricating supplying and mounting MS cox of 16 SWG suitable for floor / wall mounting. fully weather proof with providion for better heat discription, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm and Rs. 0.35	Sqm Cm							
			1x2	120.00	60.00		14400.00		
			1	410.00	25.00		10250.00		
							24650.00	0.35	**8628.00**
13	Providing and fixing of Clamps set and borewell cap to the pump (as per SPD Rate)	Nos							
			1				**1**	610.00	**610.00**
14	Suppying and delivery of brand new best make Non-return valve of size 50mm as per IS 778/84 with latest amendments with ISI mark BCSR Page no : 90 iteam no : 13 62	Nos							
			1				**1**	1350.00	**1350.00**
15	Suppying and delivery of brand new best make Gate wheel of size 50mm as per IS : 778/84 with latest amendments with ISI mark (Rate approved by RDED) 50mm Gate wheel Valve for distributer pipeline	Nos							
	50 mm dia		4				**4**	1492.00	**5968.00**
	65 mm dia		2				**2**	1850.00	**3700.00**
16	Providing & fixing of 50mm G.I. bend to the Motor (Rate approved by S.E.PRED RATES)	No.	4				4	220.00	**880.00**
17	Providing & fixing of 50mm G.I. NIPPLE to the Motor (Rate approved by S.E.PRED RATES)	No.	4				4	95.00	**380.00**
18	Providing & fixing of 50mm G.I. UNION to the Motor (Rate approved by S.E.PRED RATES)	No.	2				2	450.00	**900.00**

19	Erection connection Labour charges (Rate approved by S,E,PRED RATES)	Nos							
			1				**1**	400.00	**400.00**
20	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., Involved in the job (Necessary GI pipe and specials will be supplied by the board at the site free of cost) (Rate approved by RDED)	Nos							
			1				**1**	3500.00	**3500.00**
21	Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc. Complete for basement (PWD SR Electrica 99-2000 Page no. 60. I. no 15) a) Out door type	Nos							
			1				**1**	475.00	**475.00**
22	Supplying and fixing miniature circuit breakers/Isolators on existing MCB distribution boards using necessary fixing materials and wiring complete as required - complete as (PWD SR ELECTRICALS PAGE NO - 35/13)	No							
			1				**1**	1025.00	**1025.00**
23	Supplying and fixing polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., SR ELECTRICALS PAGE NO - 30. iteam no. 2 F)	Nos							
			1				**1**	350.00	**350.00**
24	Supplying and Laying of L.T.U.G Cable having aluminiumconductor PVC insulated shelhed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV calss (Confirming to IS 1554) (As per approved by SE (DZ) 2007-08)	Mtr							
			1	25.00			**25.00**	200.00	**5000.00**
25	Digging of Trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc., Complete sutting road surfaces (PWD SR Electrical 99-2000 P. No. 59 I. No. 11d)	Mtr							
			1	20.00			**20.00**	50.00	**1000.00**
26	Supplying and fixing Class--A GI Pipe on Pole / Wall / Drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (As per rate approved by SR page no 69, item no 15(A)	Nos							
			1	3.00			**3.00**	220.00	**660.00**

27	Supplying and fixing wiring earth electrode for grounding conduits. IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit./ The pit should be filled with equal proportion of salt and charocoal 150 mm alround the pipe to complete depth The connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts. nuts washers and checknuts etc.. the pipe shall have 16 through holes of 122 mm dia (SR page no 66, iteam no 7)	Nos							
			1				1	1500.00	**1500.00**
28	Supplying and fixing LT cast iron pot Heads suitable for 1.1 KV class UG cable filled with necessary bitumen / insulating compound complete with terminals , clamps, bolts nuts and washers etc. (SR page no 39, iteam no 16B)	Nos							
			1				1	240.00	**240.00**
29	Supplying of porcelain fuse channel with cutouts (PWD SR Electrical 99-2000 P. No. 41, I. No. 17b)	Nos							
			3				3	36.00	**108.00**
30	Suppying shunt capacitor's confirming to IS 2834,3 Phase 400/440 volts grade for power factor improvement of roatating machinery Capacitor in KVAR rating Nos. (PWD SR Electrical 99-2000 P. No. 24, I. No. 15b)	Nos							
			1				1	350.00	**350.00**
31	Fixing a shunt capacitor of KVAR capacity with necessary clamps. bolts and nuts to an existing wooden or metal board including banking of more than one capacitor (PWD SR Electrical 99-2000 P. No.28, I. No. 17a)	Nos							
			1				1	55.00	**55.00**
32	Supplying fixing and wiring pilot lamps board using 3 Nos flush mounted neon indicator lamps. 3 Nos. 5 amps flush switches surface mounted in a gang box or flush mounted in 4mm thick plastic sheet, 3 Nos. of 5 amps bakelite suses and necessary wires (PWD SR Electrical 99-2000 P. No.32, I. No. 5)	Nos							
			1				1	137.00	**137.00**
33	Providing and fixing Gun Metal Gate wheel valves confirming to IS specification of approved make as per direction including all lead and lift etc,. complete 50mm dia (p.223/I.5a)	Nos							
			1				1	887.25	**887.00**

34	K B 2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m after breaking of clods complete as per specifications. specification No. KBS 2.1 (b) / 2.3.5 (P.5/I.2.4 PW. P & IWTD -SR 2010-11)	Cum							
			1	400.00	0.60	0.90	**216.00**	190.80	**41213.00**
35	Providing and installing at site of work 63mm (0.662) P.V.C pipes of 6 kg./cm2 including cost of pipes and specials and labour including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete. (P No.12 I. No. 3 4 2 a) PRED SR. 2010-11	Mtr							
	b) 75mm 6 KSC/Smtr		1	400.00			**400.00**	112.00	**44800.00**
36	Providing and installation at site of work 20mm GI Pipes including cost of pipes and specials and labour including lowering into treanches, laying true to line, complete As per Direction of Engineer incharge for Public Taps. For Motor / Pipe line								
		Rmt	1	4.00			4.00	125.00	**500.00**
37	KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m, including cost of all labour complete as per specifications. (P.6/I.2.11 PW. P & IWTD -SR 2010-11)	Cum							
			Qty. Wide Item No 34				216.00	51.41	**11105.00**
38	KPTCL Deposit & Sevice	LS							**40084.00**
								Total	**600000.00**

A/S
No. JC(DH) AS 787/12-13 19/03/13
Rs. 06.00 lakhs (Rupees Six lakhs only)
Page No. 149
Sl. No. 787

Rupees. Six Lakhs Only

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary
2 The Estimate is prepared as per the PRED SR 2010-11 and PW.P & IWTD SR 2010-11
3 The Provision made in estimate are adequate and essential.
4 This area comes under BBMP limits.

Assistant Engineer
shettyhalli ward-12

Asst. Exe. Engineer
shettyhalli Sub-Division

Exeutive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.